THE REGULATIONS GOVERNING THE when 1,097,210 acres yielded only 10.6 967 in 1897 to 1,592,697 in 1898. TO PREVENT CONTAGION OF TUBER-MILK TEST AT THE OMAHA EX- bushels per acre. On the basis of Poultry show a slight increase over the CULOSIS. POSITION.

As we have had considerable discussion in these columns of late as to the best method of conducting a milk test at a fair, it may be interesting to our readers to know the scale of points to be used in the milk competition at the Omaha exhibition. The followand the rules and regulations governing the test:

"Rule 1. The test shall be for ten days, and shall be open to all cows. Heaters with first cal shall be in a class by themselves.

Rule 2. All cows entered for competition shall be under control of the committee in

the cow being allowed to name the person who cares for and paths the cow. They may receive at the direction of the owner any amount or proportion of the fellowing foods, viz.: corn and oats ground, wheat, bran, lin seed meal, cottonseed meal, corn silage, clover hay, timothy hay, and pratrie hay.

All feed used shall be weighed and samples

analyzed, and each cow shall be charged with the dry matter therein. But the same feeds acre. In 1897, 2,432,491 acres gave and the same proportion of each shall be continued throughout the test in each case, per acre. The great increase of recent When the ration is adopted only the amount of feed can be varied. Each cow shall be charged with the total amount of food given, no allowance being made for food not con-

Rule 3. As a basis for comparison one point shall be allowed for each pound of solids not lat, and ten points for each pound of solids not lat, and ten points for each pound of lat contained in the milk. The points obtained in the milk is a point of the milk in trained in this way shall be increased by one per cent, for each week of lactation after the test month. In no case, however, shall more than twenty-five per cent. increase be allowed for advancing lactation. The number of points obtained in this way divided by the number of pounds of dry matter in the food consumed curing the test will give a factor which represents the relative food economy of the cows being tested.

This factor multiplied by an arbitrary num-

ber (five is recommended) shall be added for each day of the test, and the sum shall constitute the score. The cow having the largest score obtained in this way shall be considered

cows and for heiters; in case of the between cows and heiters each shall be entitled to the same premium.

The chief feature of this scale, as compared with the tests conducted at 1898. less than a ten days' test. Would it 7,871 acres in 1898. not be possible to conduct such a test could be taken into account.

CROP ESTIMATES FOR ONTARIO.

grain will be revised in November 167 in 1896. from actual threshing results. The following is a summary of the report:

25,305,890 bushels, an average of 24.1 mated yield was 23,988,051 bushels, averaging 25.2 bushels per acre. The age this year is the largest since 1883, from 1,304,359 in 1896, and 1,399, of a cheese or butter factory.

acreage, yield, and quality the Ontario previous year. fall wheat crop for 1898 may be set down as the best since 1883 at 1 ast. There were only 25,159 acres plowed There are 190,080 colonies of bees in up this spring, as against 55,477 in Ontario. 897, which may partly account for the big increase this year.

Spring Wheat. - 389,205 acres, ing is the scale of points to be used yielding 6,714,516 bushels, an average of 17.3 bushels per acre. In 1897, 323,305 acres gave 4,868,101 bushels, or 15.1 bushels per acre. The crop this year is the largest since 1891, in which year 510,634 acres gave 10,711,-538 bushels or 21 bushels per acre.

Barley.—438,734 acres give 12,048,245 bushels, or 27.5 bushels per charge during the test and for two days prior thereto. They shall be fed and milked under the direction of the committee, the owner of acre. In 1897, 451,515 acres gave 12,021,779 bushels, or 26.6 bushels per acre. The acreage has fallen per acre. steadily since 1890, though the yield of late years has been about stationary.

Outs .--2,376,360 acres yielding 82,-132,026 bushels, or 34.5 bushels per per acre. The great increase of recent years may be seen from the fact that the average for the past sixteen years was 1,875,240 acres, giving 64,476,051 bushels, or 34.4 bushels per acre.

782 bushels, or 18.1 bushels per acre. 093 hushels, or 15,5 bushels per acre. The average for the past sixteen years was 19.9 bushels per acre.

Hay and Clover.-2,453,503 acres yield 4,399,063 tons, or 1.79 tons per acre. This is an increase of 587,545 tons over 1897, and over 1,000,000 tons above the average of 1882-97. The largest previous yield was 4,963,-557 tons in 1893. The yield per acre has been equalled only once since 1887 -in 1893.

e best.

Other Crops. — Acreage alone is Premiums of equal merit are offered for given. Corn for husking has fallen Crops. — Acreage alone is from 335,030 acres in 1897 to 330,-748 in 1898, and for the silo from 209,005 in 1897 to 189,948 acres in 1898. The acreage of potatoes is the tairs here, is the fact that the food practically the same as last year, or is taken into account. It is hardly 169,946. The acreage of tobacco has is taken into account. It is hardly 169,946. The acreage of tobacco has possible to do this satisfactorily with increased from 705 acres in 1897 to

Live Stock on hand .- The numbers during the Toronto Exhibition? Of of live stock are for the 1st of July of course it is now too late to do any- each year. Horses were as follows: thing this year. But the plan is worth 611,241 in 1898, 613,670 in 1897, and considering for another year; and if 624,749 in 1896. Cattle: 2,216,943 all the varied interests concerned in 1898, 2,102,326 in 1897, and would co-operate we could have at the 2,181,958 in 1896. Milch cows show Industrial Fair for 1899 a tenday an increase of 26,000 in the past year, milk test in which the food consumed and store cattle a decrease of 20,000. Sheep: 1,677,014 in 1898, 1,670,350 in 1897, and 1,849,348 in 1896. Swine made a large increase from 1,269,631 in 1896 and 1,284963 in 1897 to The Ontario Department of Agri. 1,642,787 in 1898. There is an inculture has issued its annual estimate crease of 3 5,000 in young swine over of the crops for the present year. The last year. Poultry are 9,084,473 in acreage given is final, but the yield of 1898, 8,435,341 in 1897, and 7,734,-

llowing is a summary of the report: the twelve months preceding July 1st Fall Wheat.—1,048,182 acres, yield in each year. Horses are about the 25,305,890 bushels, an average of 24.1 same as the previous two years—44,-bushels per acre. In 1897 the esti- 404. Cattle are 552,485 in 1898, 503,007 in 1897, and 436,451 in 1896.

The wool clip was 5, 104,686 pounds, as compared with 5,139,894 in 1897.

OUR DAIRY SCHOOLS.

proportion to the number of inhabistructors and teachers are equal to, if only two schools.

GUELPH DAIRY SCHOOL.

This school is an important branch animal kind. of the Dairy Department of the Ontapractical dairying.

KINGSTON DAIRY SCHOOL.

The Kingston school is a branch of with tuberculosis. the School of Mining and Agriculture duty as last year, with the exception of been reduced to a minimum. Mr. J. A. Kerr, who will act as instructor in butter-making. Mr. Kerr is one of the regular instructors employed by the Eastern Butter and give a good account of himself.

Live Stock sold.—The figures are for and arrange to spend some time at timothy, because no danger resulted either one of these schools. In many from its use. The first objection to ways it will be advantageous for a clover hay is its dustiness, the result maker to spend a week or two at these of its leaves breaking into very fine institutions every winter. The brush- pieces because they had become so ing up that he will get will make him dry as to be very brittle. Sheep show a decrease—766,876 in a better workman and better fitted to has no leaves to break up in this way. average for the sixteen years, 1882-97, 1896 to 732,872 in 1897, and to 664,- discharge the important duties he is The other objection to clover is that was 20.2 bushels per acre. The acre- 239 in 1898. Swine sold increased called upon to perform as a manager horses will eat so much of it, if allowed,

Issued by Ohio Experimental Station.

Recent developments, together with the historical data concerning tuberculosis among the bovine kind, has excited some curiosity among thinking people as to the possibility of rendering animals exposed less liable to the disease than would seem possible According to its population Canada under average or normal conditions. is as well equipped with dairy schools Physicians and veterianarians generally as any other country in the world, have arrived at the conclusion that the Not only are they as numerous in greatest danger comes from the germs floating in the dry air or dust. To tants as elsewhere, but the equipment this end they argue that persons with of the schools, and the staffs of in-consumption should not be allowed to spit upon sidewalks, on floors in the not superior, to those in any other house, about the streets, in street cars country. This is as it should be, for or any other places frequented by Canada is the leading dairy country in others; not that there is danger from the world to day and should have an the spittle as such, but from the efficient teaching staff on practical dried residue, which is regarded as the dairy subjects. As yet we have remost potent factor in spreading the ceived the annual announcements of disease from one person to another. The reasoning seems plausible, and, if it is true of the human subject, it should apply equally forcibly to the

The Ohio Experiment Station asrio Agricultural College of Guelph, sumes this theory as correct, and, since and is under the immediate charge the disease has developed among their of H. H. Dean, B.S.A., Professor of dairy herd, the plan has been adopted Dairy Husbandry. The next session of keeping the stable atmosphere conopens on January 4th and will close stantly moist. The floors are of ceon March 24th, 1899. The course is ment, and are swept clean twice a day. a comprehensive one and includes a Before each sweeping the entire inside practical training in cheese-making, is lightly sprinkled, just sufficiently to cream separators, butter-making, milk allay all dust. After sweeping, and testing and home dairying, besides a while the floors are yet moist, salt of number of lectures on kindred sub- an inferior grade is thinly scattered jects, such as dairy farming, dairy over them, aiding materially in keep-bacteriology, etc. The staff of ining the atmosphere of the entire stable structors for the coming term will be in a moist condition, and thus reducthe same as last year, which is a guar- ing the chances of germs being transantee that good, effective work will be mitted in the dust. Animals in the done and that the students who will same stables not affected are less liable attend will receive a good drilling in to receive germs, and the attendants enjoy greater safety, if, as it has been alleged, man can contract the disease by working among animals affected

This treatment is a comparatively located at Kingston, Ontario. It is inexpensive one. The water can be under the supervision of the Ontario secured from the well or cistern con-Department of Agriculture, with Mr. nected with every well-regulated barn, J. A. Ruddick resident superintendent and the salt can be purchased at from in charge. The next session of this \$3 to \$5 per ton. In addition to the school opens on November 25, 1898. moist treatment, the barn is opened In addition to a long course of six and thoroughly aired every day, even weeks, there are six short courses of in the coldest weather, and every pretwo weeks each arranged for. The caution is taken to prevent the atmoslong course opens on January 26, and phere from becoming close or stuffy, is intended to afford those who have This practical work seems to demonthe time and the inclination an oppor- strate that the cattle are in no way untunity for more thorough training than comfortable under the treatment, the it is possible to get in the other courses. attendants enjoy as good health as The same staff of instructors will be on ever, and the spread of the disease has.

FEEDING HORSES CLOVER.

Very few farmers ever think of feed-Cheese Association, and will no doubt ing clover hay to their horses, says give a good account of himself.

The Michigan Farmer. They have Cheese and butter-makers should always regarded it as dangerous, and bear these announcements in mind preferred feeding timothy or mixed as to injure themselves. The first ob-